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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Sheet	1	of	22
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Complete if Known

Application Number	09/832,812
Filing Date	4/12/2001
First Named Inventor	Sarkozy, et al.
Art Unit	2185
Examiner Name	Kim
Attorney Docket Number	STO-0891

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Attorney Docket Number	STG0581		
Sheet	2	of	22

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cita No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1 ²
		GIBSON, G.A., "Redundant Disk Arrays: Reliable, Parallel Secondary Storage," The MIT Press, Cambridge, Massachusetts (1992), pp. xvii-xxi and 1-288.	
		MATTHEWS, K.C., "Implementing a Shared File System on a HIPPI Disk Array," Fourteenth IEEE Symposium on Mass Storage Systems (1995), pp. 77-88.	
		Katz, R. H., "High-Performance Network and Channel Based Storage," Proceedings of the IEEE, Vol. 80, No. 8 (August 1992), pp. 1237-1261.	
		"Protocols for X/Open FC Interworking: SMB, Version 2," X/Open CAE Specification (1992) pp. 121-133, 135-149 and 151-177.	
		GIBSON, G.A., et al., "A Case for Network-Attached Secure Disks," School of Computer Science, Carnegie Mellon University (September 25, 1996) pp. 1-19.	
		"The RAIDBook: A Source Book for RAID Technology," Edition 1-1, The RAID Advisory Board, St. Peter, MN (November 18, 1993), pp. 1-110.	
		DRAPEAU, A.L., et al., "RAID-II: A High-Bandwidth Network File Server," IEEE (1994), pp. 234-244.	
		COPELAND, G., et al., "A Comparison Of High-Availability Media Recovery Techniques," Association for Computing Machinery (May 1989), pp. 98-109.	
		COYNE, R.A., et al., "The High Performance Storage System," Association for Computing Machinery (April 1993) pp. 83-92.	
		CROCKETT, T. W., "File Concepts For Parallel I/O," Association for Computing Machinery (August 1989), pp. 574-579.	
		DARLIN, M.D., et al., "A Quantitative Analysis of Cache Policies for Scalable Network File Systems," Association for Computing Machinery (May 1994), pp. 150-160.	
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Sheet	3	of	22
		Attorney Docket Number	STC05RI

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	1 ²
		COMER, D. E., et al., "Uniform Access to Internet Directory Services," Association for Computing Machinery (August 1990), pp. 50-59.	
		KRONENBERG, N. H., et al., "VAXclusters: A Closely-Coupled Distributed System," ACM Transactions on Computer Systems, Vol. 4, No. 2 (May 1986), pp. 130-149.	
		KIM, W., "Highly Available Systems for Database Applications," Computing Surveys, Vol. 16, No. 1 (March 1984), pp. 71-95.	
		JOSHI, S. P., "The Fiber Distributed Data Interface: A Bright Future Ahead," IEEE (1986), pp. 504-512.	
		HUBER, J. V., Jr., et al., "PPFS: A High Performance Portable Parallel File System," Association for Computing Machinery (June 1995), pp. 356-394.	
		KING, R. P., et al., "Management of a Remote Backup Copy for Disaster Recovery," ACM Transactions on Database Systems, Vol. 16, No. 2 (June 1991), pp. 338-368.	
		SVOBODOVA, L., "File Servers for Network-Based Distributed Systems," Computing Surveys, Vol. 16, No. 4 (December 1984), pp. 353-398.	
		LANTZ, K. A., et al., "Towards a Universal Directory Service," Association for Computing Machinery (September 1985), pp. 250-260.	
		HOWARD, J. H., et al., "Scale and Performance in a Distributed File System," ACM Transactions on Computer Systems, Vol. 6, No. 1 (February 1988), pp. 51-81.	
		DAVIDSON, S. B., et al., "Consistency in Partitioned Networks," Computing Surveys, Vol. 17, No. 3 (September 1985) pp. 341-370.	
		TANENBAUM, A. S., et al., "Distributed Operating Systems," Computing Surveys, Vol. 17, No. 4 (December 1985), pp. 419-470.	

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**INFORMATION DISCLOSURE
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Sheet 4 of 22

Complete if Known

Application Number	09/832,812
Filing Date	4/12/2001
First Named Inventor	Sarkozy et al.
Group Art Unit	2185
Examiner Name	Kim
Attorney Docket Number	STO-5891

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		LISKOV, B., et al., "Replication in the Harp File System," Association for Computing Machinery (1991), pp. 226-238.	
		NG, S., et al., "Trade-offs between Devices and Paths in Achieving Disk Interleaving," IEEE (February 1988), pp. 196-201.	
		MOHAN, C., "IBM's Relational DBMS Products: Features and Technologies," Association for Computing Machinery (May 1993), pp. 445-448.	
		MITCHELL, J.G., et al., "A Comparison of Two Network-Based File Servers," Communications of the ACM, Vol. 25, No. 4 (April 1982), pp. 233-245.	
		"NonStop Transaction Services/MP," Tandem Transaction Services Product Description (1994), pp. 1-6.	
		RAMAKRISHNAN, K.K., et al., "A Model of File Server Performance for a Heterogeneous Distributed System," Association of Computing Machinery (February 1986), pp. 338-347.	
		RICHARDS, J., et al., "A Mass Storage System for Supercomputers Based on Unix," IEEE (September 1988), pp. 279-286.	
		SANDHU, H.S., et al., "Cluster-Based File Replication in Large-Scale Distributed Systems," 1992 ACM SIGmetrics & Performance Evaluation Review, Vol. 20, No. 1 (June 1992), pp. 91-102.	
		POLYZOIS, C.A., et al., "Evaluation of Remote Backup Algorithms for Transaction-Processing Systems," ACM Transactions on Database Systems, Vol. 19, No. 3 (September 1994), pp. 423-449.	
		WEINSTEIN, M.J., et al., "Transactions and Synchronization in a Distributed Operating System," Association of Computing Machinery (December 1985), pp. 115-126.	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
Examiner Name	Kim	Technology Center 2100	
Attorney Docket Number	STO-05RI		
Sheet	5	of	22

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		WALKER, B., et al., "The LOCUS Distributed Operating System," Association of Computing Machinery (June 1983), pp. 49-70.	
		HARTMAN, J. H., et al., "The Zebra Striped Network File System," ACM Transactions on Computer Systems, Vol. 13, No. 3 (August 1995), pp. 274-310.	
		LEVY, E., et al., "Distributed File Systems: Concepts and Examples," ACM Computing Surveys, Vol. 22, No. 4 (December 1990), pp. 321-374.	
		"NCSA's Upgrade Strategy," Access (Fall 1994), pp. 1-3.	
		CHANDRA, A., "Connection Machines," Thinking Machines Corporation (May 16, 1996).	
		CHEN, P. M., et al., "A New Approach to I/O Performance Evaluation - Self-Scaling I/O Benchmarks, Predicted I/O Performance," ACM Transactions on Computer Systems, Vol. 12, No. 4 (November 1994), pp. 308-339.	
		"Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem," IBM Technical Disclosure Bulletin, Vol. 38, No. 7 (July 1995), pp. 455-458.	
		"Limited Distributed DASD Checksum, a RAID Hybrid," IBM Technical Disclosure Bulletin, No. 4a (September 1992), pp. 404-405.	
		"Direct Memory Access Controller for DASD Array Controller," IBM Technical Disclosure Bulletin, Vol. 37, No. 12 (December 1994), pp. 93-98.	
		"Parity Read-ahead Buffer for Raid System," IBM Technical Disclosure Bulletin, Vol. 38, No. 9 (September 1995), pp. 497-500.	

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Sheet 6 of 22

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		"Continuous Data Stream Read Mode for DASD Arrays," IBM Technical Disclosure Bulletin, Vol. 38, No. 6 (June 1995), pp. 303-304.	
		"Multibus Synchronization for Raid-3 Data Distribution," IBM Technical Disclosure Bulletin, No. 5 (October 1992), pp. 21-24.	
		"Direct Data Coupling," IBM Technical Disclosure Bulletin (August 1976), pp. 873-874.	
		"Redundant Arrays of Independent Disks Implementation in Library within a Library to Enhance Performance," IBM Technical Disclosure Bulletin, Vol. 36, No. 10 (October 1995), pp. 351-354.	
		"Design for a Backing Storage for Storage Protection Data," IBM Technical Disclosure Bulletin, No. 1 (June 1991), pp. 34-36.	
		"Data Volatility Solution for Direct Access Storage Device Fast Write Commands," IBM Technical Disclosure Bulletin, No. 12 (May 1991), pp. 327-342.	
		"Efficient Storage Management for a Temporal Performance Database," IBM Technical Disclosure Bulletin, No. 2 (July 1992), pp. 357-365.	
		"On-Demand Code Replication in a Firmly Coupled Microprocessor Environment," IBM Technical Disclosure Bulletin, Vol. 38, No. 11 (November 1995), pp. 141-144.	
		"Bounding Journal Back-On during Recovery of Data Base Replica in Fault-Tolerant Clusters," IBM Technical Disclosure Bulletin, Vol. 36, No. 11 (November 1993), pp. 675-678.	

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		Group Art Unit	2185
		Examiner Name	Kim
Sheet	7	of	22
		Attorney Docket Number	STO-55RI

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		"High-Speed Track Format Switching for Zoned Bit Recording," IBM Technical Disclosure Bulletin, Vol. 36, No. 11 (November 1993), pp. 669-674.	
		"Technique for Replicating Distributed Directory Information," IBM Technical Disclosure Bulletin, No. 12 (May 1991), pp. 113-120.	
		"Fault Tolerance through Replication of Video Assets," IBM Technical Disclosure Bulletin, Vol. 39, No. 9 (September 1996), pp. 39-42.	
		"Dual Striping for Replicated Data Disk Array," IBM Technical Disclosure Bulletin, No. 345 (January 1993).	
		"Replication and Recovery of Database State Information in Fault Tolerant Clusters," IBM Technical Disclosure Bulletin, Vol. 36, No. 10 (October 1993), pp. 541-544.	
		"Threshold Scheduling Policy for Mirrored Disks," IBM Technical Disclosure Bulletin, No. 7 (December 1990), pp. 214-215.	
		"Method for Consistent Data Replication for Collection Management in a Dynamic Partially Connected Collection," IBM Technical Disclosure Bulletin, No. 5 (October 1990), pp. 454-464.	
		"Grouping Cached Data Blocks for Replacement Purposes," IBM Technical Disclosure Bulletin (April 1986), pp. 4947-4949.	
		"Zero-Fetch Cycle Branch," IBM Technical Disclosure Bulletin (August 1986), pp. 1265-1270.	
		"Cache Enhancement for Store Multiple Instruction," IBM Technical Disclosure Bulletin (December 1984), pp. 3943-3944.	
		"Dynamic Address Allocation in a Local Area Network," IBM Technical Disclosure Bulletin (May 1983), pp. 6343-6345.	

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Sheet	8	of	22
		Attorney Docket Number	STO-55RI

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
		"Multi Disk Replicator Generator Design," IBM Technical Disclosure Bulletin (March 1981), pp. 4683-4684.	
		"Continuous Read and Write of Multiple Records by Start Stop Buffers between Major and Minor Loops," IBM Technical Disclosure Bulletin (December 1980), pp. 3450-3452.	
		"Read Replicated Data Feature to the Locate Channel Command Word," IBM Technical Disclosure Bulletin (January 1980), p. 3811.	
		"Rapid Access Method for Fixed Block DASD Records," IBM Technical Disclosure Bulletin (September 1977), pp. 1565-1566.	
		"Multimedia Audio on Demand," IBM Technical Disclosure Bulletin, Vol. 37, No. 6B (June 1994), pp. 451-460.	
		"Asynchronous Queued I/O Processor Architecture," IBM Technical Disclosure Bulletin, No. 1 (January 1993), pp. 265-278.	
		"Service Processor Data Transfer," IBM Technical Disclosure Bulletin, No. 11 (April 1991), pp. 429-434.	
		"Hardware Address Relocation for Variable Length Segments," IBM Technical Disclosure Bulletin (April 1981), pp. 5186-5187.	
		"Swap Storage Management," IBM Technical Disclosure Bulletin (February 1978), pp. 3651-3657.	
		"Interface Control Block for a Storage Subsystem," IBM Technical Disclosure Bulletin (April 1975), pp. 3238-3242.	
		"Automated Storage Management," IBM Technical Disclosure Bulletin (February 1975), pp. 2542-2543.	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)

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Application Number 09/832,812
Filing Date 4/12/2001
First Named Inventor Sarkozy et al.
Group Art Unit 2185
Examiner Name Kim
Attorney Docket Number STO-0581

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		"Takeover Scheme for Control of Shared Disks," IBM Technical Disclosure Bulletin (July 1989), pp. 378-380.	
		"General Adapter Architecture Applied to an ESDI File Controller," IBM Technical Disclosure Bulletin (June 1989), pp. 21-25.	
		"Multiple Memory Accesses in a Multi Microprocessor System," IBM Technical Disclosure Bulletin (November 1981), pp. 2752-2753.	
		"Control Interface for Magnetic Disk Drive," IBM Technical Disclosure Bulletin (April 1980), pp. 5033-5035.	
		"System Organization of a Data Transmission Exchange," IBM Technical Disclosure Bulletin (February 1963), pp. 35-38.	
		"Service Processor Architecture and Microcode Algorithm for Performing Protocol Conversions Start/Stop, BSC, SDLC," IBM Technical Disclosure Bulletin (May 1989), pp. 461-464.	
		"Shared Storage Bus Circuitry," IBM Technical Disclosure Bulletin (September 1982), pp. 2223-2224.	
		"Dynamically Alterable Data Transfer Mechanism for Direct Access Storage Device to Achieve Optimal System Performance," IBM Technical Disclosure Bulletin (June 1978), pp. 39-39.	
		"Multi-Level DASD Array Storage System," IBM Technical Disclosure Bulletin, Vol. 38, No. 6 (June 1995), pp. 23-24.	
		"Redundant Array of Independent Disks 5 Parity Cache Strategies," IBM Technical Disclosure Bulletin, Vol. 37, No. 12 (December 1994), pp. 261-264.	
		"Method for Data Transfer for Raid Subsystem," IBM Technical Disclosure Bulletin, Vol. 39, No. 8 (August 1996), pp. 99-100.	

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		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Sheet 10 of 22		Attorney Docket Number	STO-081

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		STODOLSKY, D., et al., "Parity Logging Overcoming the Small Write Problem in Redundant Disk Arrays," 20 th Annual International Symposium on Computer Architecture (May 16-19, 1993), pp. 1-12.	
		MOGI, K., et al., "Hot Block Clustering for Disk Arrays with Dynamic Striping," Proceedings of the 21 st VLDB Conference, Zurich, Switzerland (1995), pp. 90-99.	
		DAHLIN, M.D., et al., "Cooperative Caching: Using Remote Client Memory to Improve File System Performance," First Symposium on Operating Systems Design and Implementation (OSDI) (November 14-17 1994), pp. 267-275.	
		WOOD, D.A., et al., "An In-Cache Address Translation Mechanism," The 13 th Annual International Symposium on Computer Architecture, Tokyo, Japan (June 25 1986), pp. 358-365.	
		CORBETT, P.F., et al., "Overview of the Vesta Parallel File System," Computer Architecture News, Vol. 21, No. 5 (December 1993), pp. 7-14.	
		PATTERSON, D.A., "Massive Parallelism and Massive Storage: Trends and Predictions for 1995 to 2000," Keynote Address, Second International Conference on Parallel and Distributed Information Systems, San Diego California (January 1993), pp. 6-7.	
		UITERWIJK, A., "RAID Storage System: Superflex 9000 Provides Dynamic Growth," InfoWorld (June 17, 1996), p. N/13.	
		FRANCIS, B., "SuperFlex Unveiled for RAID Market," InfoWorld (September 11, 1995), p. 38.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Sheet	11	of	22
		Attorney Docket Number	STQ#5R1

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		LEVINE, R., "Know Your RAID? You've Got it Made: The explosion in Network Storage Needs is Driving Business to VARs who Understand RAID Technology," <i>VARbusiness</i> (January 1, 1996).	
		"AMI Introduces RAID Technology Disk Array," <i>Worldwide Computer Product News</i> (March 1, 1996).	
		"American Megatrends Inc. has Introduced FlexRAID, a New Adaptive RAID Technology," <i>TelecomWorldWire</i> (February 23, 1996).	
		"ABL Canada's VT2C Demonstrates Unparalleled Flexibility in a Major Application for the U.S. Government BTG Selected for Billion Dollar ITCP Program," <i>Business Wire</i> (May 24, 1996).	
		"American Megatrends' FlexRAID Advances RAID Technology to the Next Level, Adaptive RAID Combines Significant Firmware and Software Features," <i>PR Newswire</i> (February 22, 1996).	
		"American Megatrends' General Atoll Software Maximizes Fault Tolerance, Watchdog Utility Significantly Reduces Reaction Time," <i>PR Newswire</i> (February 16, 1996).	
		"American Megatrends Capitalizes on World Wide Web Presence; AMI Site Open for Business with New Look and On-Line Purchase Options," <i>PR Newswire</i> (January 9, 1996).	
		"AMI Offers Detailed Support For SAF-TE RAID Standard, New Standard Will Reduce Error Reaction Time and Increase RAID System Safety," <i>PR Newswire</i> (October 30, 1995).	
		"American Megatrends and Core International Jointly Develop RAIDStack(TM) Intelligent RAID Controller Board, Combination of AMI MegaRAID (TM) Hardware with Core Technology to Revolutionize RAID Market," <i>PR Newswire</i> (October 26, 1995).	
		"AMI Announces New MegaRAID Ultra RAID Controller; New SCSI PCI RAID Controller Breaks Speed and Technology Barriers," <i>PR Newswire</i> (October 3, 1995).	
		CROTHERS, B., "Controller Cards; AMI to Unveil DMI-Compliant RAID Controller," <i>InfoWorld</i> (October 9, 1995).	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/832,812
				Filing Date	4/12/2001
				First Named Inventor	Sarkozy et al.
				Group Art Unit	2185
				Examiner Name	Kim
Sheet	12	of	22	Attorney Docket Number	STO-0581

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		"American Megatrends Joins RAID Advisory Board," <i>PR Newswire</i> (September 20, 1995).
		CROTHERS, B., "AMI Moves into RAID Market with New Controller Design," <i>InfoWorld</i> (July 17, 1995).
		GOLD, S., "HP's Smart Auto-RAID Backup Technology," <i>Newsbytes News Network</i> (August 4, 1995), pp. 1-2.
		SAVAGE, S., et al., "AFRAID - A Frequently Redundant Array of Independent Disks," <i>Usenix Technical Conference</i> (January 22-26, 1990), pp. 27-39.
		"Departmental Networks; 1996 Buyers' Guide; Buyers Guide" <i>LAN Magazine</i> (September 15, 1996).
		"Miniguide: RAID Products," <i>Optical Memory News</i> (July 16, 1996).
		WHIPPLE, D., "EMC Leaps ahead in Market for Mainframe Storage," <i>Business Dateline: Boulder County Business Report</i> (June 1996).
		BURDEN, K., et al., "RAID stacks up: The Varied Approach of Ramac, Symmetrix and Iceberg Score Well with Diverse Users," <i>Computerworld</i> (February 26, 1996).
		"EMC's RAID-S Attains an Industry First with RAID Advisory Board Conformance; Unique RAID-S Implementation is First Mainframe/Open Systems Feature to Receive RAID Level 5 Conformance Certification," <i>Business Wire</i> (December 11, 1995).
		BABCOCK, C., "RAID Invade New Turf," <i>Computerworld</i> (June 19, 1995), p. 186.

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Sheet 13 of 22

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Application Number	09/832,812	RECEIVED MAY 21 2003 Technology Center 210
Filing Date	4/12/2001	
First Named Inventor	Sarkozy et al	
Group Art Unit	2185	
Examiner Name	Kim	
Attorney Docket Number	STO-05RI	

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		ENTICKNAP, N., "Storing Up Trouble; IBM's Problems in the Disc Array Market," <i>ASAP</i> (May 11, 1995), p. 40.	
		"EMC Brings Top Performance to Mainframe Customers with Smaller Capacity Needs," <i>Business Wire</i> (April 17, 1995).	
		STEDMAN, C., et al., "Discount Days to End for EMC Customers," <i>Computerworld</i> (April 17, 1995), p. 4.	
		LAPOLLA, S., "DEC Broadens Storage Support; Scalable Storageworks Tags Multiplatform Server Data; DEC Storageworks RAID Array 410 RAID Array System; Brief Article; Product Announcement," <i>ASAP</i> , No. 6, Vol. 12 (February 13, 1995), p. 50.	
		STEDMAN, C., et al., "EMC Recasts RAID," <i>Computerworld</i> (January 30, 1995), p. 1.	
		GALLERY, R., "Buying Issues Turned Upside Down; In The RAID World, Products Are Built to Fit the Data. In The Past, IBM Offered One-Size DASD for all Needs," <i>Computerworld</i> (January 30, 1995), p. 78.	
		"Making Up Lost Ground; New Redundant Arrays of Independent Disks Offerings from IBM; Includes Related Articles on Storage Companies, Approaches to RAID and IBM Storage Product Plans; Special Report: Storage," <i>ASAP</i> , Vol. 15, No. 7 (July 1994), p. 113.	
		STEDMAN, C., "New IBM Arrays Fall Short of Rival EMCs Performance [sic]," <i>Computerworld</i> (June 13, 1994), p. 6.	
		AMBROSIO, J., "IBM to Unveil First Host RAID Device," <i>Computerworld</i> (November 22, 1993), p. 1.	
		NASH, K., "EMC Ups Mainframe Storage Ante," <i>Computerworld</i> (November 16, 1992), p. 8.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Sheet	14	of	22
		Attorney Docket Number	STO-0581

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		SULLIVAN-RAINOR, M., et al., "Smaller, Faster, but not Cheaper, EMC's Symmetrix Storage Systems Beat IBM's Conventional DASD in Key Areas Except [sic] Cost and Ease of Customizing," <i>Computerworld</i> (June 15, 1992), p. 72.
		STERLICCHI, J., "IS: Outlook; Column" <i>ASAP</i> (February 13, 1992) p. 22.
		GILLIN, P., "EMC Upgrades 3990-like Disk Array by 60%," <i>Computerworld</i> (January 13, 1992), p. 160.
		"EMC Brings Revolutionary Disk Array Storage System to Unisys 1100/2200 Market," <i>Business Wire</i> (September 9, 1991).
		CASEY, M., "In Real Life," <i>Computerworld</i> (August 19, 1991), p. 550.
		MORAN, R., "PREPARING FOR A RAID—What Are the Benefits of Redundant Arrays of Inexpensive Disks?," <i>Information Week</i> (May 27, 1991), p. 280.
		"EMC Sees Exceptional Customer Demand for Symmetrix Product Line; March 15 Price Increase Planned," <i>Business Wire</i> (February 13, 1991).
		TERESKO, J., et al. (ed.), "Next Generation in Data Storage," <i>Industry Week</i> (October 15, 1990), p. 660.
		"Two Years Ahead of Its Competitors' Projected Delivery Dates, EMC Unveils First 'RAID' Computer Storage System," <i>Business Wire</i> (September 25, 1990).
		"Best System Corp. purchases Encore Infinity R/T for 3D Virtual Reality [sic] in Motion Simulation Rides," <i>Business Wire</i> (September 17, 1996).
		"Encore Expands Into New Gaming Market with Best System Inc. and Pacific System Integrators Inc.," <i>Business Wire</i> (September 10, 1996).

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Substitute for form 1449B/PTO			Complete if Known Application Number 09/832,812 Filing Date 4/12/2001 First Named Inventor Sarkozy et al. Group Art Unit 2185 Examiner Name Kim Attorney Docket Number STO-05RI	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				
Sheet	15	of	22	

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/H.K./		"ENCORE COMPUTER CORPORATION: South African Farm Cooperative Buys Encore Infinity Data Storage System," <i>M2 Presswire</i> (September 9, 1996).	
/H.K./		"Memorex Telex Sells Encore Infinity SP to Haindl," <i>Business Wire</i> (September 3, 1996).	
/H.K./		"Encore Sells Data Sharing Infinity Storage System to Farm Cooperative in South Africa," <i>Business Wire</i> (August 20, 1996).	
/H.K./		"Encore Reports Second Quarter Financial Results; Product Revenues Increase - Service Declines," <i>Business Wire</i> (August 19, 1996).	
/H.K./		"Encore Computer Corp. Sells Infinity SP30 to 10 th Largest Software Company in Germany," <i>Business Wire</i> (July 11, 1996).	
/H.K./		"Encore Sells Real-Time Systems to the French Navy, DCN-Direction Des Constructions Navales \$1 Million Contract," <i>Business Wire</i> (July 9, 1996).	
/H.K./		"Gulf States Toyota, Inc. purchases Encore's Infinity SP Storage Processor with Data Sharing and Backup/Restore Capabilities," <i>Business Wire</i> (June 25, 1996).	
/H.K./		"Encore Awarded a \$3 million Contract for Real-Time Computer Systems from EDF Nuclear Power in France," <i>Business Wire</i> (June 25, 1996).	
/H.K./		"Pepsi-Cola General Bottlers Takes Advantage of Data Sharing Capability of Encore's Infinity SP30," <i>Business Wire</i> (June 11, 1996).	
/H.K./		"Memorex Telex (UK) Ltd. to Sell Encore Infinity SP Storage Processors," <i>Business Wire</i> (June 3, 1996).	
/H.K./		"Amcote Sells Encore Infinity SP30 to General Atomic South Africa," <i>Business Wire</i> (May 28, 1996).	

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
Sheet 16 of 22	Attorney Docket Number	STO-05RI	Technology Center 2100

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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/H.K./		"Encore Gets \$3 Million Order for London Underground, Safety Criteria Impose Special Requirements," <i>Business Wire</i> (May 21, 1996).	
/H.K./		"Encore Reports First Quarter Financial Results; Records Initial Storage Product Revenue," <i>Business Wire</i> (May 15, 1996).	
/H.K./		"KPT Inc. Purchases Encore Infinity SP30 Storage Processor for Print Server Applications," <i>Business Wire</i> (May 14, 1996).	
/H.K./		MCHUGH, J. "When It Will Be Smart to be Dumb," <i>Forbes</i> (May 6, 1996).	
/H.K./		"Sikorsky Purchases Encore Computer Systems for Helicopter Simulation," <i>Business Wire</i> (April 22, 1996).	
/H.K./		"Encore Reports Year End Financial Results...\$100M Financing Completed," <i>Business Wire</i> (April 16, 1996).	
/H.K./		"Digital and Encore Computer to Market Infinity Gateway for AlphaServer 8000 Systems," <i>Business Wire</i> (April 10, 1996).	
/H.K./		"ENCORE GETS CONTRACT," <i>Sun-Sentinel</i> (March 26, 1996), p. 3D.	
/H.K./		"Northrop Grumman Purchases Encore Systems for U.S. and French Navy E-2C Project," <i>Business Wire</i> (March 25, 1996).	
/H.K./		"Encore Announces a Simple, Low Cost, Direct Internal Data Facility to Share Mainframe and Open Systems Data," <i>Business Wire</i> (February 29, 1996).	
/H.K./		"Encore Sells Infinity SP30 Storage System; ISC of Miami Realizes Operating Efficiencies and Financial Savings from New Storage System," <i>Business Wire</i> (February 20, 1996).	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

Sheet 17 of 22

Complete if Known

Application Number 09/832,812
Filing Date 4/12/2001
First Named Inventor Sarkozy et al.
Group Art Unit 2185
Examiner Name Kim
Attorney Docket Number STO-0581

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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		"Encore Sells Infinity SP30 Storage System to GUVV in Germany," <i>Business Wire</i> (February 9, 1996).	
		"Encore Signs Memorex Telex Italia, Italian Distributor to Market the Infinity SP Storage Processor," <i>Business Wire</i> (February 6, 1996).	
		"Encore Wins Award Valued at Over \$1M for PAC-3 Missile," <i>Business Wire</i> (January 29, 1996).	
		"Encore Wins Contract Valued at US\$500,000 from Ceselsa," <i>M2 Presswire</i> (January 25, 1996).	
		"Encore Wins Award Valued at \$500 Thousand from CESELSA," <i>Business Wire</i> (January 23, 1996).	
		"Encore Announces World's Fastest Single Board Computer System," <i>Business Wire</i> (January 10, 1996).	
		"Encore Announces Infinity R/T Sale to ENEL in Italy," <i>Business Wire</i> (December 18, 1995).	
		"Encore Extends Storage Presence to Argentina," <i>M2 Presswire</i> (December 12, 1995).	
		"Encore Extends Storage Presence to Argentina; PANAM TECH to Sell Infinity SP Storage Processors," <i>Business Wire</i> (December 11, 1995).	
		"Encore Announces Sale to Agusta Sistemi in Italy; Alpha AXP-Based Infinity R/T Selected for Simulation," <i>Business Wire</i> (December 4, 1995).	
		"Encore Announces System Sale to Letov in Czech Republic," <i>Business Wire</i> (November 27, 1995).	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/832,812
				Filing Date	4/12/2001
				First Named Inventor	Sarkozy et al.
				Group Art Unit	2185
				Examiner Name	Kim
Sheet	18	of	22	Attorney Docket Number	STO-0561

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		"Encore Ships Computer System for High Speed Magnetic Suspension Train," <i>Business Wire</i> (November 23, 1995).
		"Encore Reports Third Quarter Financial Results; Encore Makes Progress in Building Storage Distribution," <i>Business Wire</i> (November 20, 1995).
		DEPOMPA, B. "EMC Device Does Two Jobs-New Enterprise Storage Platform Can Handle Data from Mainframes and Unix Computer Systems," <i>Information Week</i> (November 20, 1995), p. 163.
		"Encore Signs Major Distribution in Sweden, MOREX to Sell Infinity SP Storage Family," <i>Business Wire</i> (November 13, 1995).
		STEDMAN, C. "EMC to Open Up Disk Arrays Symmetrix 5000 Will Store Data From Multiple Platforms," <i>Computerworld</i> (November 8, 1995), p. 14.
		"Encore Ships Systems to AeroSimulation, Contract Valued at \$1 Million Plus," <i>Business Wire</i> (October 31, 1995).
		"Encore Wins Award from Lockheed Martin, \$2.4 Million Contract Awarded for MTSS Program," <i>Business Wire</i> (October 24, 1995).
		"Encore Sets Agreement with Bell Atlantic Business Systems Services for Storage Systems," <i>Business Wire</i> (October 16, 1995).
		"Encore Accelerates Paradigm Shift, Intelligent Storage Controllers Outfeature and Outperform All Fixed Function DASD Controllers," <i>Business Wire</i> (October 9, 1995).
		"Encore Infinity SP40 Sets Industry Standard Performance Record for DASD Controllers," <i>Business Wire</i> (October 9, 1995).
		"News Shorts," <i>Computerworld</i> (October 9, 1995), p. 8.

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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				Examiner Name	Kim
Attorney Docket Number	STO-081				
Sheet	19	of	22		

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		"Encore Announces Entry Level Storage System That Revolutionizes Enterprise Wide Data Access, Provides Open Systems Users Direct Access to Mainframe Data," <i>Business Wire</i> (September 19, 1995).
		CAO, P., et al., "The TickerTAIP Parallel RAID Architecture," HP Laboratories Technical Report (November 1992), pp. 1-20.
		BERSON, S., et al., "Fault Tolerant Design of Multimedia Servers," SIGMOD (1995).
		CHEN, P.M., et al., "RAID: High Performance, Reliable Secondary Storage," ACM Computing Surveys, Vol. 26, No. 2 (June 1994), pp. 145-185.
		STALIN, C., et al., "Clustering Active Disk Data to Improve Disk Performance," Department of Computer Science (September 20, 1990), pp. 1-25.
		SELTZER, M., et al., "An Implementation of a Log-Structured File System for UNIX," 1993 Winter USENIX (January 25-29, 1993), pp. 7-18.
		KOHL, J.T., et al., "HighLight: Using a Log-Structured File System for Tertiary Storage Management," (November 20, 1992), pp. 1-15.
		BERSON, S., et al., "Staggered Striping in Multimedia Information Systems," Computer Science Department Technical Report, University of California (December 1993), pp. 1-24.
		POLYZOIS, C.A., et al., "Disk Mirroring with Alternating Deferred Updates," Proceedings of the 19 th VLDB Conference, Dublin, Ireland (1993), pp. 604-617.
		STODOLSKY, D., et al., "Parity Logging: Overcoming the Small Write Problem in Redundant Disk Arrays," 26 th Annual International Symposium on Computer Architecture (May 16-19, 1993), pp. 1-12.

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		Attorney Docket Number	STO-0581

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		HOLLAND, M., et al., "Parity Decustering for Continuous Operation in Redundant Disk Arrays," Proceedings of the 5th Conference on Architectural Support for Programming Languages and Operating Systems (1992).
		GRAY, J., et al., "Parity Striping of Disc Arrays: Low-Cost Reliable Storage with Acceptable Throughput," Proceedings of the 16th VLDB Conference, Brisbane, Australia (1990), pp. 148-161.
		HARTMAN, J. H. "The Zebra Striped Network File System," Dissertation, University of California At Berkeley (1994), pp. ix and 1-147.
		"Data Link Provider Interface Specification," OSI Work Group, UNIX International (August 20, 1991), pp. 1-174 and cloxx-vii.
		"Veritas® Volume Manager (VxVM®): User's Guide, Release 2.3," Solaris™ (August 1996).
		"IEEE Standard Dictionary of Measures to Produce Reliable Software," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (April 30, 1989), pp. 1-37.
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Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/832,812		
		Filing Date	4/12/2001		
		First Named Inventor	Sarkozy et al.		
		Group Art Unit	2185		
		Examiner Name	Kim		
Sheet	21	of	22	Attorney Docket Number	STO-0581

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
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		"IEEE Guide to Software Design Descriptions," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (May 25, 1993), pp. i-v and 1-22.
		"IEEE Guide for the Use of IEEE Standard Dictionary of Measures to Produce Reliable Software," Institute of Electrical and Electronics Engineers, Inc., New York (June 12, 1989), pp. 1-96.
		"IEEE Guide to Software Configuration Management," The Institute of Electrical and Electronics Engineers, Inc., New York (September 12, 1988), pp. 1-95.
		"IEEE Standard for Software Quality Assurance Plans," Institute of Electrical and Electronics Engineers, Inc., New York, NY (August 17, 1989), pp. 1-12.
		"IEEE Standard for Software Test Documentation," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (December 7, 1982), pp. 1-48.
		COLEMAN, S. and MILLER, S. (eds.), "Mass Storage System Reference Model, Version 4," IEEE Technical Committee on Mass Storage Systems and Technology (May 1990), pp. 1-38.
		WILKES, J., et al., "Introduction to the Storage Systems Program," Computer Systems Laboratory, Hewlett Packard Laboratories (August 10, 1995), pp. 1-37.
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		BHIDE, A., et al., "An Efficient Scheme for Providing High Availability," Association for Computing Machinery SIGMOD (April 1992), pp. 236-245.

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Sheet	22	of	22
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Complete if Known

Application Number	09/832,812
Filing Date	4/12/2001
First Named Inventor	Sarkozy et al.
Group Art Unit	2185
Examiner Name	Kim
Attorney Docket Number	STO-0511

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		<p>BORGERSON, B. R., <i>et al.</i>, "The Architecture of the SPERRY UNIVAC-1100 Series Systems," IEEE (June 1979), pp. 137-146.</p> <p>BARD, Y., "A Model of Shared DASD and Multipathing," Communications of the ACM, Vol. 23, No. 10 (October 1980), pp. 564-572.</p> <p>CHERITON, D. R., "UIC: A Uniform I/O System Interface for Distributed Systems," ACM Transactions on Computer Systems, Vol. 5, No. 1 (February 1987) pp. 72-86.</p>	
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